

0321.68263

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Rene L. Cruz et al.  
Serial No.: 10/525,696  
Patent No.: 7,633,894  
Conf. No.: 7642  
Filed: August 4, 2005  
Issued: Dec. 15, 2009  
For: SCHEDULING METHODS FOR  
WIRELESS NETWORKS  
Art Unit: 2617  
Examiner: Allahyar Kasraian

REQUEST FOR CERTIFICATE OF CORRECTION  
UNDER RULE 1.323

Certificate of Corrections Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 C.F.R. 1.323, patentees, through their attorneys, respectfully request that a Certificate of Correction be issued in the above-referenced patent to correct the following errors:

In the Specification:

- Col. 3, line 51 Please delete "set  $\epsilon \in L_\epsilon = | \epsilon |$ " and insert " $\text{--set } \epsilon \text{ of } L_\epsilon = | \epsilon |$ "-- therefor.
- Col. 4, line 36 Please delete " $P_m(L_\epsilon)$ " and insert " $P_m(L_\epsilon)$ -- therefor.
- Col. 4, line 30 Please delete " $W'ym(t)$ " and insert " $W'ym(l)$ -- therefor.
- Col. 4, line 38 Please delete " $\epsilon(i)$  be the links in  $\epsilon$ " and insert " $\text{--}\epsilon(i)$  be the links in  $\epsilon$ -- therefor.
- Col. 4, line 44 Please delete " $\sum_{i \in \epsilon(i)}$ " and insert " $\text{--}\sum_{i \in \epsilon(i)}$ -- therefor.
- Col. 4, line 53 Please delete " $X_m$ " and insert " $X_m(l)$ -- therefor.
- Col. 4, line 67 Please delete " $\geq$ " and insert " $\text{--}\geq$ "-- therefor.
- Col. 4, line 67 Please delete " $l \in \epsilon$ " and insert " $\text{--}l \in \epsilon$ -- therefor.
- Col. 5, line 3 Please delete " $(L_\epsilon)$ " and insert " $\text{--}(L_\epsilon)$ -- therefor.
- Col. 5, line 14 Please delete " $(L_\epsilon)$ " and insert " $\text{--}(L_\epsilon)$ -- therefor.
- Col. 5, line 24 Please delete " $\sum_{i \in \epsilon}$ " and insert " $\text{--}\sum_{i \in \epsilon}$ -- therefor.
- Col. 5, line 44 Please delete " $n_{R(L_\epsilon)}$ " and insert " $\text{--}n_{R(L_\epsilon)}$ -- therefor.
- Col. 5, line 45 After "value of the" please delete the line break.
- Col. 5, line 57 Please delete " $(L_\epsilon)$ " and insert " $\text{--}(L_\epsilon)$ -- therefor.
- Col. 5, line 62 Please delete " $\sum_{i \in \epsilon}$ " and insert " $\text{--}\sum_{i \in \epsilon}$ -- therefor.
- Col. 6, line 22 Please delete " $\geq$ " and insert " $\text{--}\geq$ "-- therefor.
- Col. 6, line 47 Please delete " $\sum_{i \in \epsilon(i)}$ " and insert " $\text{--}\sum_{i \in \epsilon(i)}$ -- therefor.
- Col. 6, line 56 Please delete " $2^{1-\epsilon}$ " and insert " $\text{--}2^{1-\epsilon}$ -- therefor.
- Col. 6, line 61 Please delete " $1 \leq m \leq M$ " and insert " $\text{--}1 \leq m \leq M$ -- therefor.

- Col. 7, line 18 Please delete " $\geq$ " and insert  $--\geq--$  therefor.
- Col. 7, line 43 Please delete " $V(\vec{P}^{*,i}, \vec{C}, \vec{X}(\vec{P}^{*,i}))$ " and insert  $-- V(\vec{P}^{*,i}, \vec{C}, \vec{X}(\vec{P}^{*,i}))--$  therefor.
- Col. 7, line 54 Please delete " $(L_{\epsilon}+1)$ " and insert  $--(L_{\epsilon}+1)--$  therefor.
- Col. 7, line 55 Please delete " $(L_{\epsilon}+1)$ " and insert  $--(L_{\epsilon}+1)--$  therefor.
- Col. 7, line 57 Please delete " $(L_{\epsilon}+1)$ " and insert  $--(L_{\epsilon}+1)--$  therefor.
- Col. 7, line 60 Please delete " $(L_{\epsilon}+1)$ " and insert  $--(L_{\epsilon}+1)--$  therefor.
- Col. 7, line 61 Please delete " $H(\vec{C}_3\vec{n}) = g(\vec{\beta}^*) = \overrightarrow{V(\vec{P}^{*,i}_3\vec{C}_3\vec{X}(\vec{P}^{*,i}))}$ " and insert  $-- H(\vec{C}, \vec{n}) = g(\vec{\beta}^*) = \overrightarrow{V(\vec{P}^{*,i}, \vec{C}, \vec{X}(\vec{P}^{*,i}))} --$  therefor.
- Col. 7, line 62 Please delete " $|\leq i \leq \widehat{R}|$ " and insert  $-- | \leq i \leq \widehat{R} --$  therefor.
- Col. 8, line 12 Please delete " $\sum_{i=l}^{\widehat{R}} \lambda^*(i) X^{*,i}(l) = C(l)$ " and insert  $-- \sum_{i=l}^{\widehat{R}} \lambda^*(i) X^{*,i}(l) = C(l) --$  therefor.
- Col. 8, line 15 Please delete " $\sum_{i=l}^{\widehat{R}}$ " and insert  $-- \sum_{i=l}^{\widehat{R}} --$  therefor.
- Col. 8, line 19 Please delete " $L_{\epsilon}$ " and insert  $--L_{\epsilon}--$  therefor.
- Col. 8, line 19 Please delete " $\leq$ " and insert  $--\leq--$  therefor.
- Col. 8, line 38 Please delete " $(L_{\epsilon}+1)$ " and insert  $--(L_{\epsilon}+1)--$  therefor.
- Col. 8, line 39 Please delete " $2^{L_{\epsilon}}$ " and insert  $--2^{L_{\epsilon}}--$  therefor.
- Col. 8, line 58 Please delete "modes" and insert  $--mode--$  therefor.
- Col. 9, line 10 Please delete "edges  $\in$ " and insert  $--edges \in--$  therefor.
- Col. 9, line 11 Please delete " $\in(1), \in(2), \dots \in(J)$ " and insert  $--\in(1), \in(2), \dots \in(J)--$  therefor.

- Col. 9, line 12 Please delete " $\in = \cup_{j=1}^J \in(j)$ " and insert " $\in = \cup_{j=1}^J \in(j)$ -- therefor.
- Col. 9, line 51 Please delete " $L_{\in(j)})$ " and insert " $L_{\in(j)})$ -- therefor.
- Col. 9, line 56 Please delete " $(L_{\in(k)})$ " and insert " $(L_{\in(k)})$ -- therefor.
- Col. 10, line 10 Please delete " $\sum_{V \in L_{\in(k)}} "$ " and insert " $\sum_{V' \in L_{\in(k)}} "$ -- therefor.
- Col. 10, line 25 Please delete " $\geq$ " and insert " $\geq$ -- therefor.
- Col. 10, line 38 Please delete " $(\vec{C}, \vec{N})$ " and insert " $(\vec{C}, \vec{N}^k)$ -- therefor.
- Col. 11, line 27 Please delete " $\leq$ " and insert " $\leq$ -- therefor.
- Col. 11, line 59 Please delete " $X^{avg}(t) = \lim_{n \rightarrow +\infty} \frac{1}{n} \sum_{m=1}^{n_1} X_{ml}(t)$ " and insert  
 $--X^{avg}(l) = \lim_{n \rightarrow +\infty} \frac{1}{n} \sum_{m=1}^{n_1} X_m(l)$ -- therefor.
- Col. 11, line 61 Please delete " $= \lim_{n \rightarrow +\infty} \frac{1}{n} \sum_{m=1}^{n_1} W' \left[ \frac{G(T(l), R(l)) P_m(l)}{\sum_{k:k \neq l} G(T(k), R(l)) P_m(k) + n_{R(l)}(m)} \right]$ "  
and insert " $= \lim_{n \rightarrow +\infty} \frac{1}{n} \sum_{m=1}^{n_1} W' \left[ \frac{G(T(l), R(l)) P_m(l)}{\sum_{k:k \neq l} G(T(k), R(l)) P_m(k) + n_{R(l)}(m)} \right]$ -- therefor.
- Col. 11, line 65 Please delete " $\lim_{n \rightarrow +\infty} "$ " and insert " $\lim_{n \rightarrow +\infty} "$ --.
- Col. 12, line 5 Please delete " $\sum_{m: \in S_n(i)} W' \left[ \frac{G(T(l), R(l)) P_j^{*i}(l)}{\sum_{k:k \neq l} G(T(k), R(l)) P_j^{*i}(k) + n_{R(l)}(m)} \right]$ " and insert  
 $-- \sum_{m \in S_n(i)} W' \left[ \frac{G(T(l), R(l)) P_j^{*i}(l)}{\sum_{k:k \neq l} G(T(k), R(l)) P_j^{*i}(k) + n_{R(l)}(m)} \right]$ -- therefor.
- Col. 12, line 10 Please delete " $\geq \sum_i \lambda^*(i) W' \left[ \frac{G(T(l), R(l)) P_j^{*i}(l)}{\sum_{k:k \neq l} G(T(k), R(l)) P_j^{*i}(k) + N_j^*(l)} \right]$ " and insert

$$\rightarrow \geq \sum_i \lambda^*(i) W' \left[ \frac{G(T(l), R(l)) P_j^{*,1}(l)}{\sum_{k:k \neq l} G(T(k), R(l)) P_j^{*,1}(k) + N_j^*(l)} \right] \rightarrow \text{therefor.}$$

- Col. 12, line 12 Please delete "C(l)<sub>2</sub>" and insert -- C(l),-- therefor.
- Col. 12, line 31 Please delete "insure" and insert --ensure-- therefor.
- Col. 12, line 38 Please delete "considered a above" and insert --considered above-- therefor.
- Col. 13, line 9 Replace "L<sub>ε</sub>" and insert --L<sub>ε</sub>-- therefor.
- Col. 13, line 12 Please delete "ε" and insert --ε-- therefor.
- Col. 13, line 15 Please delete "ε" and insert --ε-- therefor.
- Col. 13, line 31 Please delete "ε" and insert --ε-- therefor.
- Col. 14, line 64 Please delete "X, Y and Y" and insert --X, Y and Z-- therefor.
- Col. 15, line 39 Please delete "by the our" and insert --by our-- therefor.
- Col. 16, lines 41-42 Please delete "for these polices in Fig. 8" and insert --for these Fig. 8 policies-- therefor.
- Col. 18, line 42 Please delete both instances of " $\sum_{i \in \epsilon \epsilon}$ " and insert -- $\sum_{l \in \epsilon}$ -- therefor.
- Col. 18, line 52 Please delete "≥" and insert --≥-- therefor.
- Col. 18, line 53 Please delete "≥" and insert --≥-- therefor.
- Col. 18, line 54 Please delete "l ∈ ε" and insert --l ∈ ε-- therefor.

REMARKS

It is believed that an issuance of a Certificate of Correction would be appropriate to correct the above clerical error(s). A Certificate of Correction incorporating the above-delineated changes is enclosed herewith.

Patentees authorize the appropriate fee of \$100.00, pursuant to 37 C.F.R. § 1.20(a), to be charged to Deposit Account No. 07-2069. The Commissioner is also authorized to charge any additional fees to Deposit Account No. 07-2069.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

By /Arik B. Ranson/  
Arik B. Ranson  
Registration No. 43,874

**Customer No. 24978**

July 26, 2010  
300 South Wacker Drive  
Suite 2500  
Chicago, Illinois 60606  
Telephone: (312) 360-0080  
Facsimile: (312) 360-9315

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,633,894  
DATED : Dec. 15, 2009  
INVENTOR(S) : Rene L. Cruz et al.

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

### In the Specification:

- Col. 3, line 51 Please delete "set  $\epsilon$  of  $L_\epsilon = \{ \epsilon \}$ " and insert --set  $\epsilon$  of  $L_\epsilon = \{ \epsilon \}$ -- therefor.
- Col. 4, line 36 Please delete " $P_m(L_\epsilon)$ " and insert -- $P_m(L_\epsilon)$ -- therefor.
- Col. 4, line 30 Please delete " $W_m(t)$ " and insert --  $W_m(l)$ -- therefor.
- Col. 4, line 38 Please delete " $\epsilon(i)$  be the links in  $\epsilon$ " and insert -- $\epsilon(i)$  be the links in  $\epsilon$ -- therefor.
- $\Sigma$   $\Sigma$
- Col. 4, line 44 Please delete " $i \in \epsilon(i)$ " and insert -- $i \in \epsilon(i)$ -- therefor.
- Col. 4, line 53 Please delete " $X_m$ " and insert -- $X_m(l)$ -- therefor.
- Col. 4, line 67 Please delete " $\cong$ " and insert -- $\supset$ -- therefor.
- Col. 4, line 67 Please delete " $i \in \epsilon$ " and insert -- $i \in \epsilon$ -- therefor.
- Col. 5, line 3 Please delete " $(L_\epsilon)$ " and insert -- $(L_\epsilon)$ -- therefor.
- Col. 5, line 14 Please delete " $(L_\epsilon)$ " and insert -- $(L_\epsilon)$ -- therefor.
- $\Sigma$   $\Sigma$
- Col. 5, line 24 Please delete " $i \in \epsilon$ " and insert -- $i \in \epsilon$ -- therefor.
- Col. 5, line 44 Please delete " $n_{R(L_\epsilon)}$ " and insert -- $n_{R(L_\epsilon)}$ -- therefor.
- Col. 5, line 45 After "value of the" please delete the line break.
- Col. 5, line 57 Please delete " $(L_\epsilon)$ " and insert -- $(L_\epsilon)$ -- therefor.
- $\Sigma$   $\Sigma$
- Col. 5, line 62 Please delete " $i \in \epsilon$ " and insert -- $i \in \epsilon$ -- therefor.

#### MAILING ADDRESS OF SENDER:

Steven P. Fallon  
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300 South Wacker Drive, 25th Floor  
Chicago, IL 60606

PATENT NO 7,633,894

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0321.68263



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It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

## In the Specification:

- Col. 6, line 22 Please delete " $\geq$ " and insert  $\rightarrow \sum$ .
- Col. 6, line 47 Please delete " $\{i \in \mathcal{E}(i)\}$ " and insert  $\rightarrow i \in \mathcal{E}(i) \rightarrow$  therefor.
- Col. 6, line 56 Please delete " $2^{L_i}$ " and insert  $\rightarrow 2^{L_i} \rightarrow$  therefor.
- Col. 6, line 61 Please delete " $1 \leq m \leq M$ " and insert  $\rightarrow 1 \leq m \leq M \rightarrow$  therefor.
- Col. 7, line 18 Please delete " $\geq$ " and insert  $\rightarrow \geq \rightarrow$  therefor.
- Col. 7, line 43 Please delete " $V(\vec{P}^{*i}, \vec{C}, \vec{X}(\vec{P}^{*i}))$ " and insert  $\rightarrow V(\vec{P}^{*i}, \vec{C}, \vec{X}(\vec{P}^{*i})) \rightarrow$  therefor.
- Col. 7, line 54 Please delete " $(L_i+1)$ " and insert  $\rightarrow (L_i+1) \rightarrow$  therefor.
- Col. 7, line 55 Please delete " $(L_i+1)$ " and insert  $\rightarrow (L_i+1) \rightarrow$  therefor.
- Col. 7, line 57 Please delete " $(L_i+1)$ " and insert  $\rightarrow (L_i+1) \rightarrow$  therefor.
- Col. 7, line 60 Please delete " $(L_i+1)$ " and insert  $\rightarrow (L_i+1) \rightarrow$  therefor.
- Col. 7, line 61 Please delete " $H(\vec{C}_3 \vec{n}) = g(\vec{\beta}^*) = V(\vec{P}^{*i}, \vec{C}_3 \vec{X}(\vec{P}^{*i}))$ " and insert  $\rightarrow H(\vec{C}, \vec{n}) = g(\vec{\beta}^*) = V(\vec{P}^{*i}, \vec{C}, \vec{X}(\vec{P}^{*i})) \rightarrow$  therefor.
- Col. 7, line 62 Please delete " $|i| \leq \vec{R}_i$ " and insert  $\rightarrow |i| \leq \vec{R}_i \rightarrow$  therefor.

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CERTIFICATE OF CORRECTION

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It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Specification:

$$\vec{K} \sum \lambda * (i) X^{*i}(l) = C(l)$$

Col. 8, line 12 Please delete " $i = l$ " " and insert

$$\vec{K} \sum \lambda * (i) X^{*i}(l) = C(l) \\ -i = l \quad \text{-- therefor.}$$

$$\vec{K} \quad \vec{K} \\ \sum \quad \sum$$

Col. 8, line 15 Please delete " $i = l$ " and insert " $-i = l$ -- therefor.

Col. 8, line 19 Please delete " $L_e$ " and insert " $-L_e$ -- therefor.

Col. 8, line 19 Please delete " $\leq$ " and insert " $-s$ -- therefor.

Col. 8, line 38 Please delete " $(L_e+1)$ " and insert " $-(L_e+1)$ -- therefor.

Col. 8, line 39 Please delete " $2^{L_e}$ " and insert " $-2^{L_e}$ -- therefor.

Col. 8, line 58 Please delete "modes" and insert "--mode-- therefor.

Col. 9, line 10 Please delete "edges  $\epsilon$ " and insert "--edges  $\epsilon$ -- therefor.

Col. 9, line 11 Please delete " $\epsilon(1), \epsilon(2), \dots \epsilon(J)$ " and insert " $-\epsilon(1), \epsilon(2), \dots \epsilon(J)$ -- therefor.

Col. 9, line 12 Please delete " $\epsilon = \bigcup_j = 1^J \in (j)$ " " and insert --

$$\epsilon = \bigcup_j = 1^J \epsilon(j) \text{--} \quad \text{therefor.}$$

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Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.  
 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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### In the Specification:

Col. 9, line 51 Please delete " $L_{\varepsilon(j)}$ " and insert " $L_{\varepsilon(j)}$ "-- therefor.  
Col. 9, line 56 Please delete " $(L_{\varepsilon(k)})$ " and insert " $(L_{\varepsilon(k)})$ "-- therefor.

Col. 10, line 10 Please delete " $V_{\varepsilon(L_{\varepsilon(k)})}$ " and insert " $V_{\varepsilon(L_{\varepsilon(k)})}$ "-- therefor.

Col. 10, line 25 Please delete " $\geq$ " and insert " $\geq$ "-- therefor.

Col. 10, line 38 Please delete " $(\vec{C}, \vec{N})$ " and insert " $(\vec{C}, \vec{N})$ "-- therefor.

Col. 11, line 27 Please delete " $\leq$ " and insert " $\leq$ "-- therefor.

Col. 11, line 59 Please delete " $X^{avg}(t) = \lim_{n \rightarrow +\infty} \frac{1}{n} \sum_{m=1}^{n_1} X_{mi}(t)$ " and insert

$$X^{avg}(t) = \lim_{n \rightarrow +\infty} \frac{1}{n} \sum_{m=1}^{n_1} X_{mi}(t)$$

-- therefor.

Col. 11, line 61 Please delete " $= \lim_{n \rightarrow +\infty} \frac{1}{n} \sum_{m=1}^{n_1} W' \left[ \frac{G(T(t), R(t)) P_m(t)}{\sum_{k: k \neq t} G(T(k), R(t)) P_m(k) + n_{R: (t)}(m)} \right]$ "

$$= \lim_{n \rightarrow +\infty} \frac{1}{n} \sum_{m=1}^{n_1} W' \left[ \frac{G(T(t), R(t)) P_m(t)}{\sum_{k: k \neq t} G(T(k), R(t)) P_m(k) + n_{R: (t)}(m)} \right]$$

and insert --

$$\lim_{n \rightarrow +\infty} \lim_{m \rightarrow +\infty}$$

Col. 11, line 65 Please delete " $n \rightarrow +\infty$ " and insert " $n \rightarrow +\infty$ ".

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## In the Specification:

Col. 12, line 5 Please delete " $\sum_{m: \epsilon S_n(i)} W' \left[ \frac{G(T(l), R(l)) P^{*1}_j(l)}{\sum_{k:k \neq l} G(T(k), R(l)) P^{*1}_j(k) + n_{R(l)}(m)} \right]$ " and insert

$$-- \sum_{m \in S_n(i)} W' \left[ \frac{G(T(l), R(l)) P^{*1}_j(l)}{\sum_{k:k \neq l} G(T(k), R(l)) P^{*1}_j(k) + n_{R(l)}(m)} \right] -- \text{therefor.}$$

Col. 12, line 10 Please delete " $\geq \sum_i \lambda^*(i) W' \left[ \frac{G(T(l), R(l)) P^{*1}_j(l)}{\sum_{k:k \neq l} G(T(k), R(l)) P^{*1}_j(k) + N_j^*(l)} \right]$ " and insert

$$-- \geq \sum_i \lambda^*(i) W' \left[ \frac{G(T(l), R(l)) P^{*1}_j(l)}{\sum_{k:k \neq l} G(T(k), R(l)) P^{*1}_j(k) + N_j^*(l)} \right] -- \text{therefor.}$$

Col. 12, line 12 Please delete "C(l)<sub>2</sub>" and insert -- C(l),-- therefor.  
 Col. 12, line 31 Please delete "insure" and insert --ensure-- therefor.  
 Col. 12, line 38 Please delete "considered a above" and insert --considered above-- therefor.  
 Col. 13, line 9 Replace "L<sub>e</sub>" and insert --L<sub>e</sub>-- therefor.  
 Col. 13, line 12 Please delete "e" and insert --e-- therefor.  
 Col. 13, line 15 Please delete "e" and insert --e-- therefor.

MAILING ADDRESS OF SENDER:  
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Col. 13, line 31 Please delete "e" and insert --ε-- therefor.  
Col. 14, line 64 Please delete "X, Y and Y" and insert --X, Y and Z-- therefor.  
  
Col. 15, line 39 Please delete "by the our" and insert --by our-- therefor.  
Col. 16, lines 41-42 Please delete "for these polices in Fig. 8" and insert  
--for these Fig. 8 policies-- therefor.  $\Sigma$   $\Sigma$   
  
Col. 18, line 42 Please delete both instances of " $i \in \epsilon$ " and insert -- $i \in \epsilon$ -- therefor.  
Col. 18, line 52 Please delete " $\geq$ " and insert -- $\geq$ -- therefor.  
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Col. 18, line 54 Please delete " $i \in \epsilon$ " and insert -- $i \in \epsilon$ -- therefor.

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